

**NIST Standards in Trade Workshop
For Vietnam on Fire Safety of Buildings**

September 22 – 26, 2008

Final Workshop Schedule

**National Institute of Standards and Technology
Gaithersburg, Maryland**

Monday, September 22

Building 215 AML/Room C103

- 8:30 a.m. **NIST Bus pick up from Hotel**
- 8:55 a.m. **Daily Orientation and Workshop Objectives**
- 9:00 am **Introduction of Workshop Participants**
Ms. Mary H. Saunders, Chief
Standards Services Division
National Institute of Standards and Technology (NIST)
- 9:30 am **Introduction to NIST and the SIT Workshop Program**
Dr. Belinda Collins, Director
Technology Services Laboratory
National Institute of Standards and Technology (NIST)
- 10:00 am **Workshop Overview and Expectations (will also include a brief introduction to technical terms)**
Dr. Ajit Jillavenkatesa, Senior Standards Specialist
Global Standards and Information Group
National Institute of Standards and Technology (NIST)
- 10:15 am **Break**
- 10:45 am **Developments and Trends in Fire Safety of Buildings**
Mr. Lawrence A. McKenna Jr., Fire Program Specialist
U.S. Fire Administration's National Fire Data Center
- 11: 15 am **Fire Safety of Buildings in Vietnam: Trends, Developments, Challenges and Opportunities –**
Mr. Do Van Son, Vice Director, Fire Prevention and Protection
Department – MPS
- 11:45 am **Q& A for both talks**
- 12:15 pm **Lunch**

- 1:15 pm **Overview of the Fire Continuum**
Mr. Thomas Fabian, Research Engineer
Underwriters Laboratories, Inc.
- 1:45 pm **Q&A**
- 2:00 pm **Site visit overview and administrative notice**
- 2:15 pm **Site visit:**
- Visit to Montgomery Fire & Rescue Training Academy
 - Visit to Fire Protection Implementation in a Building Under Construction (or being completed)
- 5:30 pm **End of Day 1**

Day 2 – Fire Behavior in Buildings

- 8:30 a.m. **NIST Bus pick up from Hotel**
- 8:55 a.m. **Administration**
- 9:00 am **Overview of Fire Dynamics in Buildings**
Dr. Pravinray Gandhi, Corporate Fellow
Director, Global Corporate Research
Underwriters Laboratories, Inc.
- 9:30 am **Q& A**
- 9:45 am **Break**
- 10:15 am **Research to Better Understand and Predict Fire Behavior in Buildings**

Fire-Structure Interaction
Mr. John Gross, Research Structural Engineer
Materials and Construction Research Division,
National Institute of Standards and Technology (NIST)
- 10:45 am Computation Fluid Dynamics Research
Ms. Terri McAllister, Research Structural Engineer
Materials and Construction Research Division
National Institute of Standards and Technology (NIST)
- 11:15 am **Q&A**
- 11:30 pm **Vietnamese Perspectives on Fire Dynamics Research, Activities Underway in Vietnam, etc.**
Dr. Trinh The Dung, Deputy Dean of Fire Protection Department
Hanoi Fire Protection University
- 12:15 pm **Group Photo**
- 12:30 pm **Lunch**

- 1:30 pm **U.S. Fire Experience Statistics: From Data Collection to Policy Making**
Ms. Marty Ahrens, Manager Fire Analysis Services
National Fire Protection Association (NFPA)
- 2:15 pm **Q&A**
- 2:30 pm **Fire Research in NIST Large Fire Laboratory**
Mr. Nelson Bryner
Fire Research Division
Building and Fire Research Laboratory, NIST
- 3:00 pm **Site visit: NIST Large Structural Laboratory in conjunction with the Load Cell Calibration Laboratory**
- 4:30 pm **End of Day 2**

Day 3 - Fire Safety Codes and Standards

8:30 a.m. **NIST Bus pick up from Hotel**

8:55 am **Administration**

9:00 am **Overview of U.S. Standards System**
Ms. Jane Schweiker, Senior Advisor to the CEO/President
American National Standards Institute (ANSI)

9:30 am **Overview of Standardization and Technical Regulation in Vietnam**
Mr. Nguyen Minh Bang, Deputy Director of Standards Department
Directorate for Standards and Quality (STAMEQ)

10:00 am Break

10:30 am **Standards and Codes for Fire Protection: Panel Discussion**
Topics to be covered:
Standards and codes development process for fire protection
Standards and codes for fire safety and building construction
Moderator: Dr. Dat Duthinh, Research Structural Engineer
Materials and Construction Research Division
National Institute of Standards and Technology
Panelists:

- Mr. Art Parker, Hughes Consulting (ASTM International)
- Mr. David Karmol, Vice President, Federal and External Relations International Code Council (ICC)
- Ms. Nancy McNabb, Director, AIA, Government Affairs National Fire Protection Association (NFPA)
- Dr. Nguyen Vo Thong, Director, Institute of Building Structures Vietnam Institute for Building Science and Technology (IBST)
- Dr. Nguyen Ngoc Ba, Director, Institute of Basic Research and Standardization in Construction
Vietnam Institute for Building Science and Technology (IBST)

Q&A

12:30 pm Lunch

- 1:30 pm **Model Codes and Local Adaptation/Adoption of Model Codes**
Mr. Justin Wiley, Director of External Relations
International Code Council (ICC)
- 2:00 pm **Use of Standards and Codes in Regulation:**
Dr. Ajit Jillavenkatesa, Senior Standards Specialist
Global Standards and Information Group
NIST
- 2:30 pm Mrs. Ta Thanh Binh, Head, Standards Section 3
Directorate for Standards and Quality (STAMEQ)
- Mr. Nguyen Huu Truong, Deputy Head, Section 1
Directorate for Standards and Quality (STAMEQ)
- 3:00 pm **Break**
- 3:30 pm **U.S. Fire Protection and Life Safety Standards**
Dr. Richard Bukowski, Standards and Codes Coordinator
Building and Fire Research Laboratory (BFRL)
National Institute of Standards and Technology (NIST)
- 4:00 pm **Performance vs. Prescriptive Approaches**
Mr. Jeffrey Tubbs, P.E., Arup
Speaking on behalf of International Code Council (ICC)
- 4:30 pm **Q& A and wrap-up**
- 5:00 pm **End of Day 3**
- 6:00 pm Reception sponsored by Washington Laboratories, Ltd
Gaithersburg Marriott Washingtonian Center
9751 Washingtonian Blvd
Gaithersburg, MD 20878

Day 4– Conformity Assessment and Implementation

- 8:30 a.m. **NIST Bus pick up from Hotel**
- 8:55 a.m. **Administration**
- 9:00 am **Conformity Assessment Supporting Codes and Regulations**
Mr. Robert Berhinig, Principal Engineer (PDE)
Underwriters Laboratories, Inc.
- Mr. Siavash Farvardin, Sr. Evaluation Specialist
 ICC
- 9:30 am **Conformity Assessment Supporting Codes and Regulations**
Mr. Dinh Van Tru, Vice Director
Quality Assurance and Testing Center 3 (QUATEST3)
Directorate for Standards and Quality (STAMEQ)
- 10:00 am **Code Implementation and Building Inspection**
Mr. Michael Pokorny, Senior Permitting Services Specialist
Department of Permitting Services
Montgomery County, Maryland
- 10:30 am **Break**
- 11:00 am **Building Certification and Fire-Prevention and Fire-Protection Certification**
Mr. Le Quang Hung
Director, State Authority for Construction Quality Inspection
Ministry of Construction
- 11:30 am **Testing and Listing Activities for Construction Materials and Products**
Mr. Robert Berhinig, Principal Engineer (PDE)
Underwriters Laboratories, Inc.
- 12:00 pm **Testing and Listing Activities for Construction Materials and Products**
Msc. Hoang Anh Giang, Head of Department of Fire Safety Engineering
Institute for Building Science and Technology (IBST)
- 12:30 pm **Lunch**

- 1:30 pm **Certification Systems and Related Organization(s) in the U.S. and Vietnam**
Mr. Mike Violette
Radio Frequency and Electrical Safety
Washington Laboratories

Mrs. Le Huong Huong, Deputy Director
International Cooperation Department
Directorate for Standards and Quality (STAMEQ)
- 2:30 pm **Conformance Testing of Buildings to Meet Code Requirements**
Mr. John Shea, Vice President
Europe and Middle East Operations and Business Development
The RJ A Group, Inc.
- 3:00 pm **Break**
- 3:30 pm **Access and Egress Considerations for Fire Protection**
Mr. Richard Peacock, Chemical Engineer
Integrated Performance Assessment Group
Building and Fire Research Laboratory (BFRL)
National Institute of Standards and Technology (NIST)
- 4:00 pm **Implementing Lessons Learned from Post-Incident Investigations - The National Construction Safety Team Act (NCST) and Lessons Learned**

Dr. Richard Bukowski, Standards and Codes Coordinator
Building and Fire Research Laboratory
NIST

Mr. Jim Tidwell, Deputy Senior Vice President, Government Relations
International Code Council (ICC)
- 5:00 pm **End of Day 4**

Day 5 – Challenges, Future Technologies and Next Steps

- 8:30 a.m. **NIST Bus pick up from Hotel**
- 8:55 a.m. **Administration**
- 9:00 am **Challenges in Implementing Standards, Codes and Conformity Assessment Systems to Ensure Fire Safety of Buildings**
Mr. Mike Love, Fire Marshal and Chief,
Division of Community Risk Reduction Services
Montgomery Country Fire and Rescue Service, Maryland
- Mr. Nguyen Huu Hop, Architect, Fire Prevention and Protection
Dept. MPS
- 10:00 am **Break**
- 10:30 am **Panel on U.S. Training and Education System (for engineers - designers, architects, inspectors, construction site supervisors) in Fire Safety for Buildings**
- Moderator:** Dr. Dat Duthinh, Research Structural Engineer
Materials and Construction Research Division
National Institute of Standards and Technology
- Panelists**
Mr. Mike Armstrong, Senior Vice President, Member Services, ICC
Ms. Nancy McNabb, AIA, Director, Government Affairs, NFPA
Mr. James Milke, Professor, University of Maryland Department of
Fire Protection Engineering
- 11:30 pm **Discussion on Potential Areas for Cooperation and Next Steps**
- 12:00 pm **Workshop wrap-up**
- 12:30 pm **Workshop ends**

9/19/2008